

SHELLFISH STAFF PRESENTATIONS

ALASKA BOARD OF FISHERIES

SOUTHEAST ALASKA AND YAKUTAT AREAS
SHRIMP POT, SHRIMP TRAWL
January 21-27, 2015
Wrangell, Alaska

1. Southeast Alaska Shrimp Pot Fisheries
2. Southeast Alaska and Yakutat Shrimp Trawl Fisheries



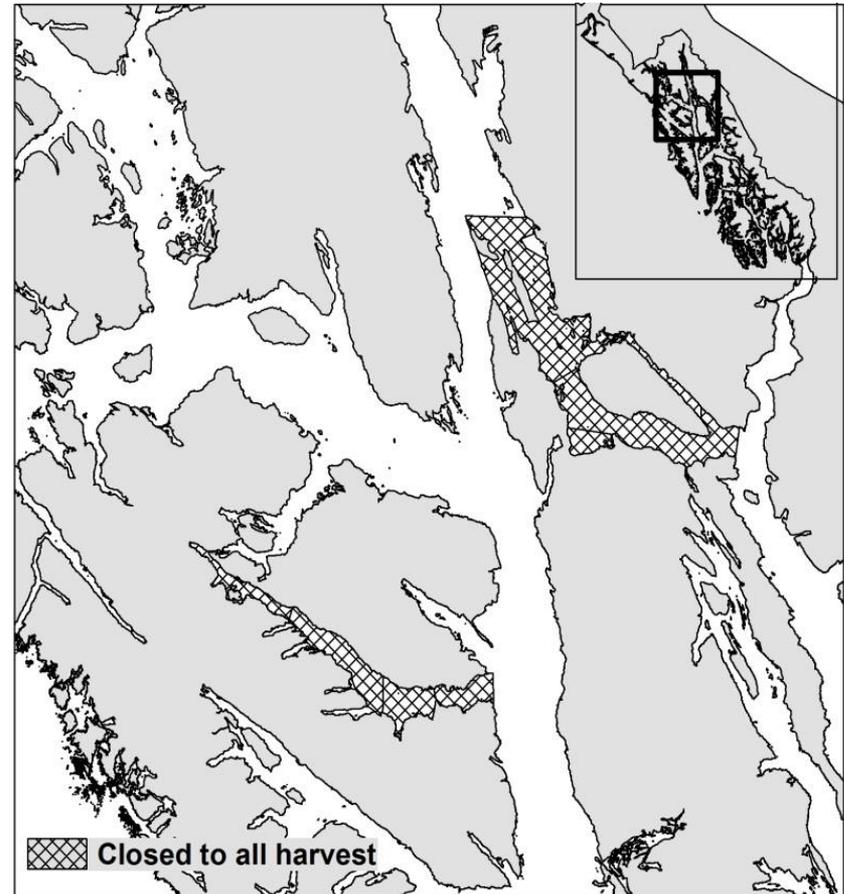
Reports by Quinn Smith
Alaska Department of Fish and Game, Southeast Region



Southeast Pot Fishery Overview

- Commercial Pot Fishery
 - 10 year average
 - 722,900 lb Harvest
 - 118 Permits
- Noncommercial Use
 - Sport
 - No closed season
 - 5 pots per person, 10 per vessel
 - No size limit, **3 pounds or 3 quarts daily**
 - **Subsistence/Personal use**
 - **No closed season**
 - **10 pots per person, 20 per vessel with pot descriptions**
 - **No size limit**
 - **No harvest limits**

- Tenakee Inlet and Section 11-A: Closed to



Southeast Trawl Fishery Overview

- **Commercial Trawl Fishery**
 - 10 year average
 - 283,900 lb Harvest
 - 6 Permits
- **Noncommercial Use**
 - Trawls not lawful gear type for sport fishing
 - **Subsistence/Personal use**
 - **Permits required for PU fishery (~20-30 permits issued annually); PU harvest approximately XXX lb on average**
 - **No closed season, no harvest limits**
- **Yakutat Commercial Trawl Fishery**
 - 1 season with harvest in past 22 seasons, confidential



Proposals

- **Commercial Pot Fishery**

- **Proposal 94: Establish Spawner Index management system**
- **Proposal 95: Adjust GHGs based on CPUE, size data, and distribution**
- **Proposal 96: Increase management flexibility**
- **Proposal 97: Divide District 1 into three fishing areas**
- **Proposal 98: Adjust reporting requirements**
- **Proposal 99: Reduce pot limits**
- **Proposal 100: Clarify use of other pot gear**
- **Proposal 101: Establish summer season**
- **Proposal 107: Closed waters**



Proposals

- **Personal Use Pot Fishery**
 - **Proposal 93: Require permit for Sport and Personal Use pot shrimp fishing in Section 11-A**



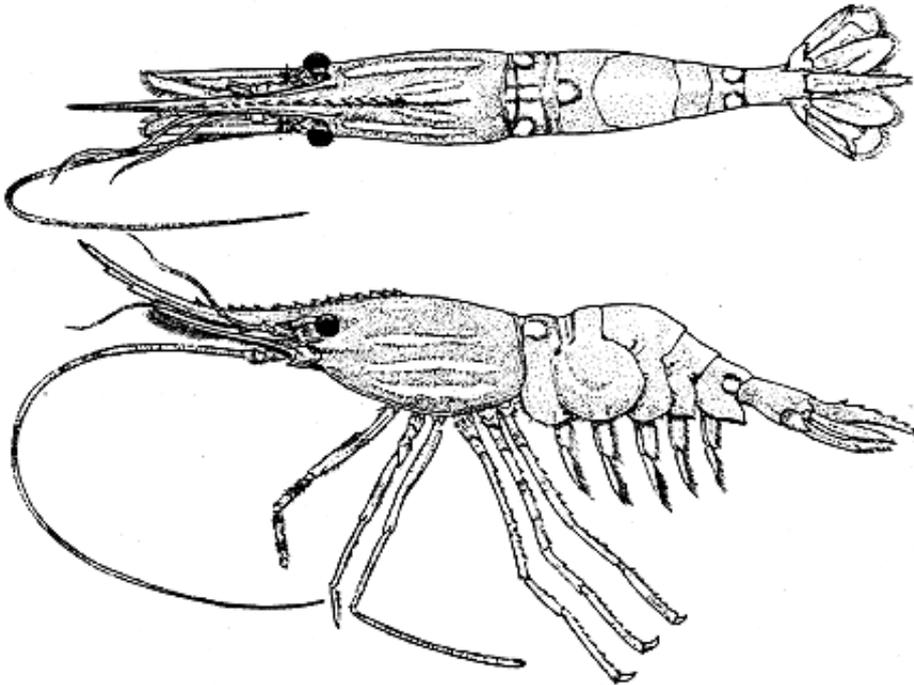
Proposals

- **Southeast Alaska Trawl Fishery**
 - Proposal 103: Establish vessel length limit
 - Proposal 104: Modify trawl specifications
 - Proposal 105: Reporting requirements
 - Proposal 106: Establish beam trawl taskforce

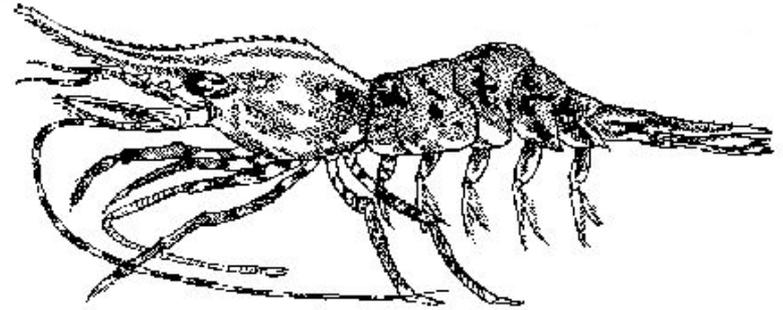
- **Yakutat Area Trawl Fishery**
 - Proposal 102: Reopen closed areas for beam trawl fishing



Shrimp Pot Fisheries



Spot Shrimp (*Pandalus platyceros*)

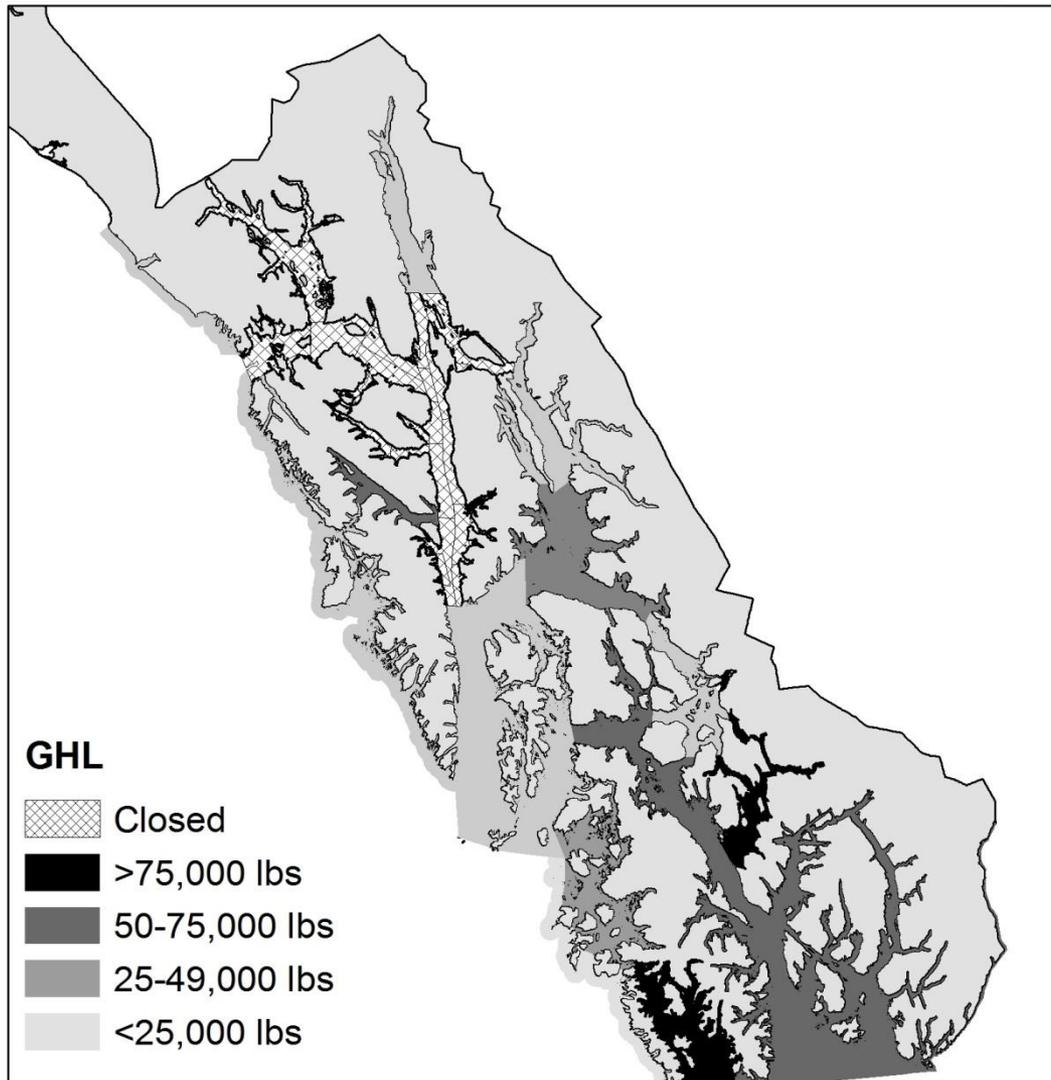


Coonstripe Shrimp (*Pandalus hypsinotus*)

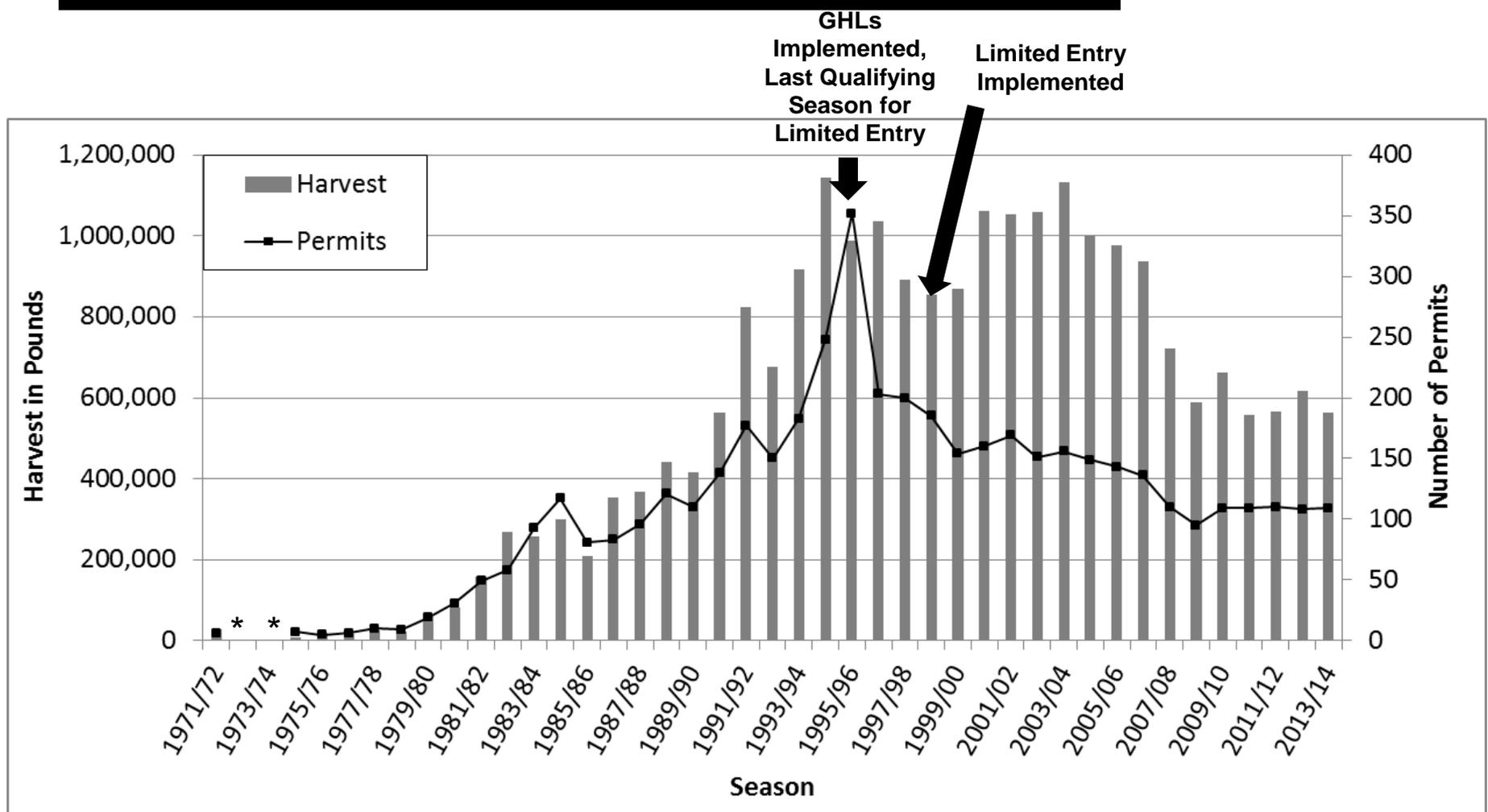


Drawing by Gue Pilon, as modified from Butler 1980

Distribution of Harvest in the Southeast Commercial Shrimp Pot Fishery



Harvest and Effort in the Southeast Commercial Shrimp Pot Fishery



* Fewer than 3 permits were fished; information is confidential.



Fishery Regulations - SE Commercial Shrimp Pot

- **Limited entry implemented in 1998**
- **Season**
 - Oct 1 - Feb 28 and by EO May 15 – July 31
- **Gear**
 - Daily fishing hours of 8:00 am to 4:00 pm
 - Minimum mesh of approximately 1-3/4 inches
 - 100 large pots or
 - 140 small pots
 - Maximum vertical height of 24 inches
 - No more than 4 tunnels
- **Original Guideline Harvest Ranges (GHRs) based on historical harvest**
- **Inseason call ins for catcher processors**
 - Accounts for ~62% of harvest over past 10 years)



Assessment Program – SE Shrimp Pot

- **Index based**
 - No population estimation
- **Data sources**
 - **Fishery Independent:**
 - **Preseason Surveys**
Districts 3, 7, 12, 13
 - Starting fall 2011 added Districts 1, 2
 - **Fishery Dependent**
 - **On-the-grounds Sampling**
 - **Dockside Sampling**
 - **Voluntary logbook program**
 - **Mandatory in Districts 6 & 7**
 - **Fish Tickets**



Management – SE Shrimp Pot

- **GHLs set based on biological data and fishery performance**
- **GHLs set on a District or Section level**
- **GHLs kept in place for minimum of 3 years to determine effect on stock (except in extreme cases)**

Area	GHL				
	2009/10	2010/11	2011/12	2012/13	2013/14
1	50,000	50,000	50,000	50,000	50,000
2	65,000	65,000	65,000	65,000	65,000
3-A	158,400	95,000	95,000	95,000	95,000
3-B/C	40,000	30,000	30,000	30,000	30,000
4	20,000	20,000	20,000	20,000	20,000
5	20,000	20,000	20,000	20,000	20,000
6*	68,000	68,000	24,000	38,400	36,800
7*	78,000	54,600	54,600	80,900	77,500
8	20,000	15,000	15,000	15,000	15,000
9	18,000	18,000	14,000	14,000	14,000
10	48,000	48,000	48,000	48,000	36,000
11- Sey.**	NA	NA	NA	20,000	15,000
11- Rem.	20,000	20,000	20,000	7,500	7,500
12-Ten.	17,000	10,000	Closed	Closed	Closed
12-Rem.	10,000	10,000	10,000	Closed	Closed
13-A/B	15,000	15,000	15,000	15,000	15,000
13-C	30,000	30,000	30,000	26,000	26,000
14	Closed	Closed	Closed	10,000	Closed
15	15,000	15,000	15,000	15,000	15,000
16	Closed	15,000	Closed	15,000	Closed
TOTAL	692,400	598,600	525,600	584,800	537,800

* Districts 6 & 7 are being managed under an experimental system.

** Seymour Canal was split from the remainder of District 11 after the 2012 Board meeting.



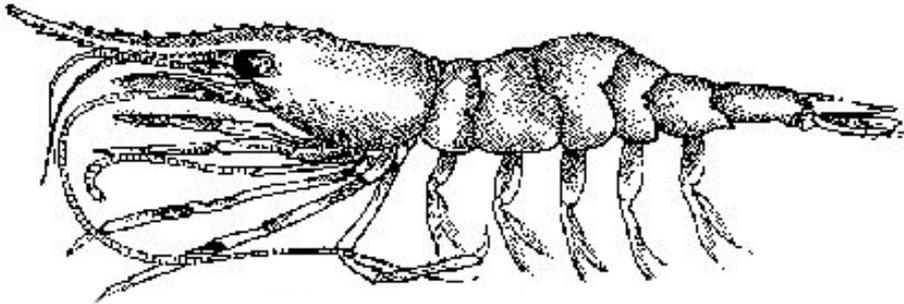
Management Challenges

– SE Shrimp Pot

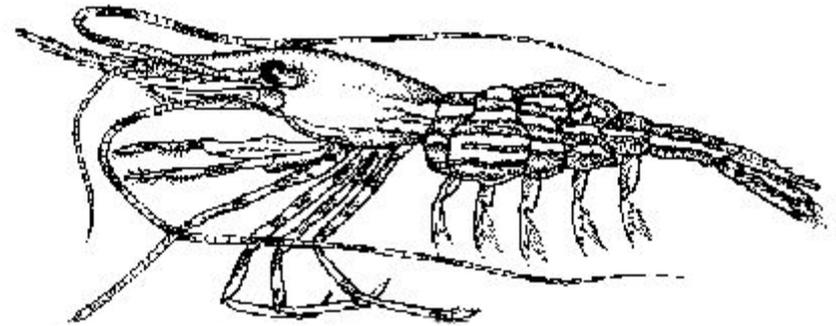
- **Declining harvests and biological evaluations**
 - Many shrimp populations in the region have declined from recently more robust populations
- **Loss of data programs through changing markets**
 - Logbook data lost when catcher processor market collapsed in 2008, market increased in 2011/12 – 2013/14 seasons
- **Limited spatial extent of fishery independent survey**
 - Currently covers portions of districts composing 57% of available GHL
- **Lack of monitoring of personal use & subsistence harvest**
- **Latent permits**
 - Only 41% of issued permits fished in the 2013/14 season
- **Lack of funding to implement new management measures**
- **Lack of area specific basic biological information**
 - Lifespan
 - Multiple spawning potential
 - Spawn success rate



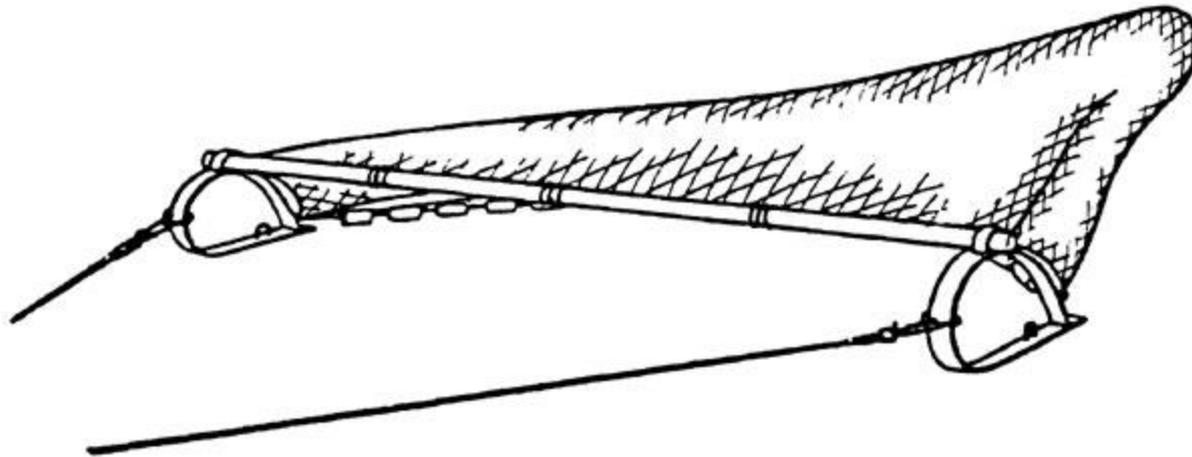
Shrimp Trawl Fishery Presentation



Northern Pink Shrimp (*Pandalus jordani*)



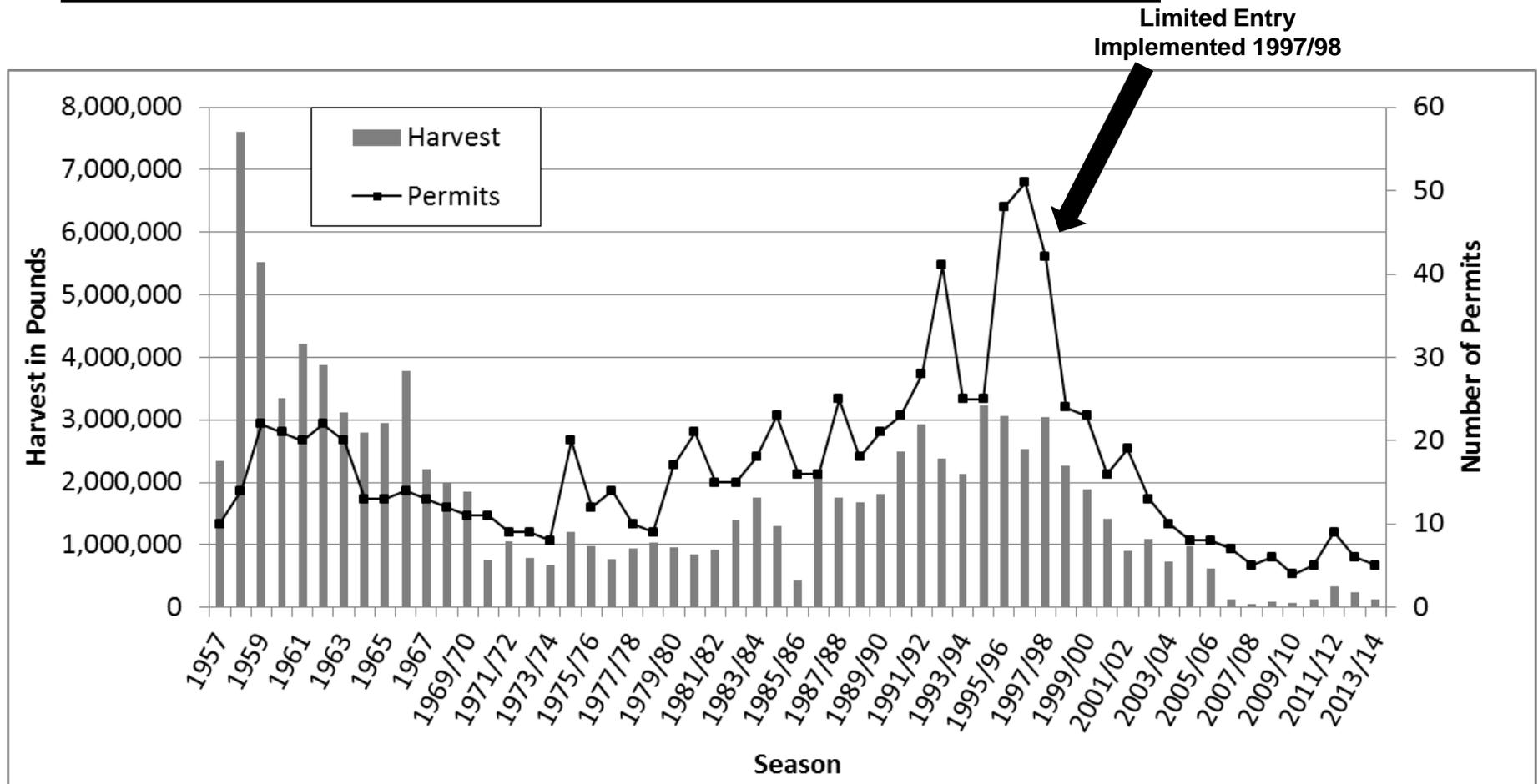
Sidestripe Shrimp (*Pandalopsis dispar*)



All Drawings by Gue Pilon, as modified from Butler 1980



Harvest and Effort in the Southeast Commercial Shrimp Beam Trawl Fishery



SE Commercial Shrimp Beam Trawl Regulations

- **Limited entry in 1997**
- **GHRs**
 - **Traditional areas**
 - Based on historical harvests by fishing area
 - Same GHR for each fishing period by fishing area
 - **Nontraditional areas**
 - Generally up to 100,000 pounds
- **Bycatch limits for spot and coonstripe shrimp**
- **Mesh size restrictions**
 - Northern pink shrimp minimum, 1-3/8 inches
 - Sidestripe shrimp minimum, 1-7/8 inches
 - No maximum mesh size

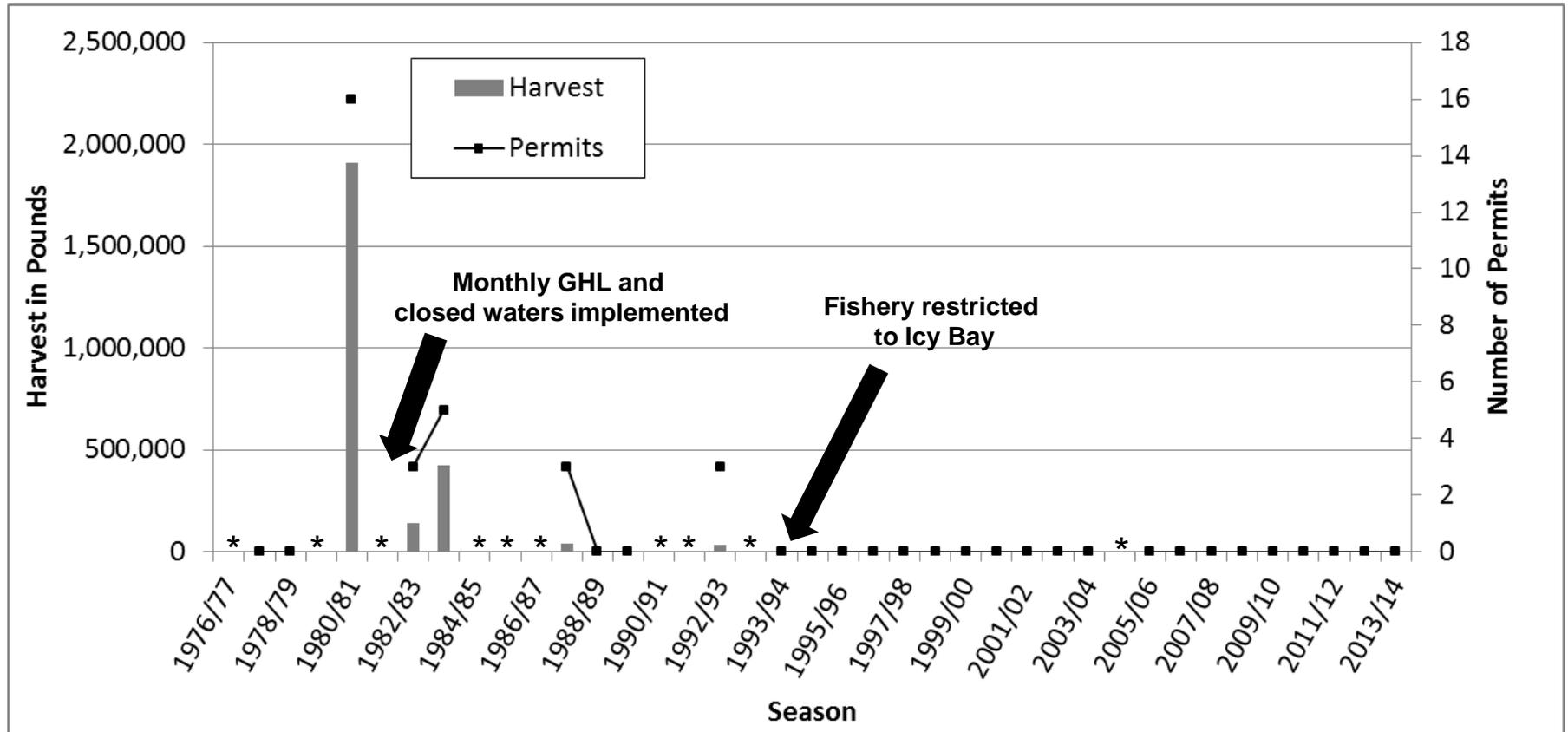


Southeast Shrimp Beam Trawl Management Challenges

- **Declining market and processing capacity**
- **Targeted harvest of larger sidestripe, coonstripe, and spot shrimp**
- **Capture & discard of small northern pink shrimp while targeting larger sidestripes**
- **No research program**
- **Management program limited**



Harvest and Effort in the Yakutat Commercial Otter Trawl Fishery



* Fewer than 3 permits were fished; information is confidential.



Yakutat Commercial Shrimp Trawl Regulations

- **Icy Bay open for fishing June 21 through Feb 14**
- **Beam and Otter trawls may be used**
- **Logbooks required**
- **50,000-350,000 lb GHR**
- **Bycatch limits only by Emergency Order**
- **Mesh size restrictions only by Emergency Order**

